CLAIMS

What is claimed is:

| 1 | 1. A cylindrical wear resistant band for providing a wear protection |
|---|--|
| 2 | surface over an inside surface of a cylindrical member in a rock crusher, the |
| 3 | cylindrical wear resistant band comprising: |
| 4 | a cast piece including a plurality of curvilinear segments, the |
| 5 | curvilinear segments being separated from each other by a portion of reduced |
| 6 | thickness, whereby the portion of reduced thickness can be cut through to separate |
| 7 | the curvilinear segments after installation on the inside surface of the cylindrical |
| 8 | member in the rock crusher. |
| | |
| 1 | 2. The cylindrical wear resistant band of claim 1, wherein the |
| 2 | curvilinear segments are formed of a ceramic material. |
| | |
| 1 | 3. The cylindrical wear resistant band of claim 1, wherein the |
| 2 | curvilinear segments are formed of materials containing iron. |
| | |
| 1 | 4. The cylindrical wear resistant band of claim 2, wherein the cast |
| 2 | piece forms an arc of 360 degrees. |
| | |
| 1 | 5. The cylindrical wear resistant band of claim 1, wherein the cast |
| 2 | piece forms an arc of at least 180 degrees. |
| | |
| 1 | 6. The cylindrical wear resistant band of claim 1 wherein the cast |
| 2 | piece forms an arc of at least 90 degrees. |

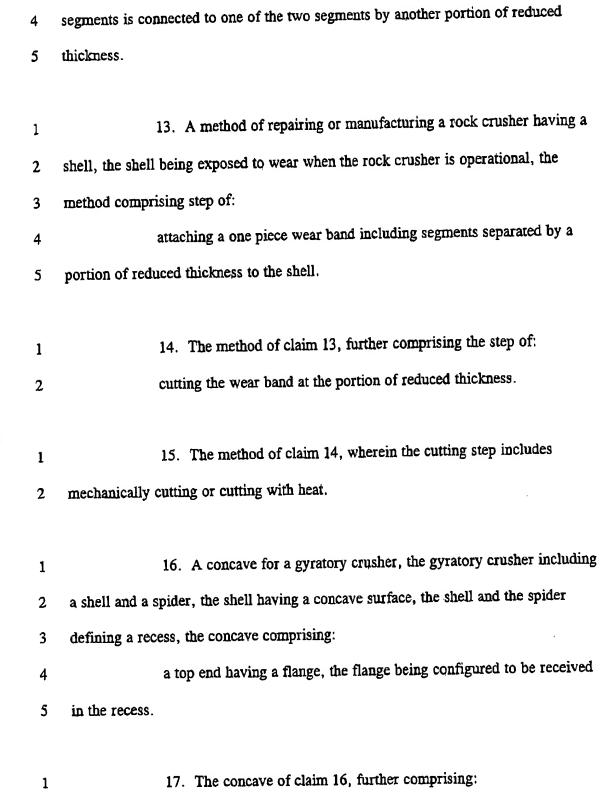
| 1 | 7. The cylindrical wear resistant band of claim 1, wherein the |
|---|---|
| 2 | cylindrical member is configured as a concave for a gyratory crusher, and the cast |
| 3 | piece includes at least three curvilinear segments. |
| | |
| 1 | 8. The cylindrical wear resistant band of claim 1, wherein the |
| 2 | portion of reduced thickness is a groove having a depth of less than an average |
| 3 | thickness from an inside surface of the cast piece to an outside surface of the cast |
| 4 | piece. |
| | |
| 1 | 9. In a rock crusher including a wear protection arrangement for a |
| 2 | surface to protect the surface from wear, the surface supporting a crushing operation |
| 3 | of the rock crusher, the wear protection arrangement comprising: |
| 4 | a plurality of curvilinear segments connected by a portion of reduced |
| 5 | thickness. |
| | |
| 1 | 10. The wear protection arrangement of claim 9, wherein the |
| 2 | segments are formed of a metal material. |
| | |
| 1 | 11. The wear protection arrangement of claim 9, wherein the |
| 2 | portions of reduced thickness are vertical with respect to the rock crusher. |
| | |
| 1 | 12. The wear protection arrangement of claim 9, wherein the |

curvilinear segments are comprised of at least three segments and two of the

segments are connected by the portion of reduced thickness and a third of the

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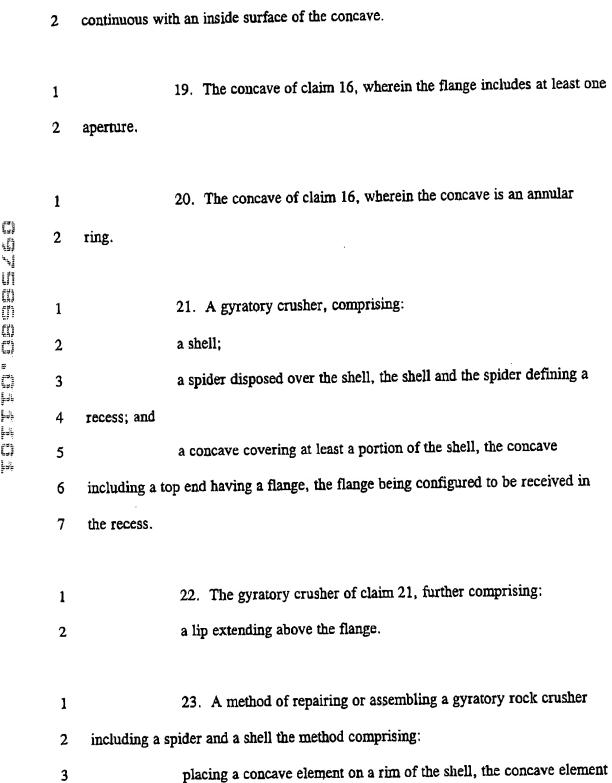
a lip extending above the flange.

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18. The concave of claim 17, wherein the lip has an inside surface

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having a flange and a lip, the flange resting on the rim of the shell; and

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| 5 | disposing the spider over the shell, thereby capturing the flange |
|---|--|
| 6 | between the spider and the rim of the shell. |
| | |
| 1 | 24. The method of claim 23, wherein a gap is defined by the flange |
| 2 | and spider, further comprising: |
| 3 | filling the gap with backing material. |
| | |
| 1 | 25. The method of claim 23, wherein the flange includes an aperture |
| 2 | and further comprising: |
| 3 | pouring backing material through the aperture. |
| | |
| 1 | 26. The method of claim 25, wherein the backing material is poured |
| 2 | after the disposing step. |
| 1 | 27. A cylindrical wear resistant band for providing a wear protection |
| 2 | surface over an inside surface of a cylindrical member in a rock crusher, the |
| 3 | cylindrical wear resistant band comprising: |
| 4 | a cast piece including a plurality of curvilinear segments, the |
| 5 | curvilinear segments capable of being separated from each other, whereby the band |
| 6 | can be cut to separate the curvilinear segments after installation on the inside surface |
| 7 | of the cylindrical member in the rock crusher. |
| 1 | 28. The cylindrical wear resistant band of claim 27, further |
| 2 | comprising: |
| 3 | portions of reduced thickness separating the curvilinear segments. |